

**origin:** United States. **origin institute:** Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** N27. **pedigree:** Selection from PI 178985. **other id:** GP-1. **group:** CSR-SWEETCLOVER. **remarks:** Large seeded *Melilotus officinalis* introduction from Turkey (PI 178985) was subjected to several generations of selection for increased seed size followed by selection for resistance to both the pea aphid (*Acyrtosiphon pisum*) and the sweetclover aphid (*Therioaphis riehmi*). Biennial. Breeding Material. Seed.

PI 552553. *Melilotus officinalis* Lam. FABACEAE Sweetclover

**Donated by:** Gorz, H.J., Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska, United States; and Nebraska Agr. Exp. Sta.. **remarks:** N28 Low Coumarin, Aphid-Resistant Sweetclover Germplasm. Received June 20, 1991.

**origin:** United States. **origin institute:** Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** N28. **other id:** GP-2. **group:** CSR-SWEETCLOVER. **remarks:** Combines reduced coumarin content, conditioned by a gene derived originally from a wild sweetclover species, *Melilotus dentata*, with genetic resistance to the sweetclover aphid (*Therioaphis riehmi*). To a large extent, these traits are incorporated into the genetic background of the *M. officinalis* cultivar Goldtop. Biennial. Breeding Material. Seed.

PI 552554. *Melilotus officinalis* Lam. FABACEAE Sweetclover

**Donated by:** Gorz, H.J., Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska, United States; and Nebraska Agr. Exp. Sta.. **remarks:** N29 Low Coumarin, Large-Seeded Aphid-Resistant Sweetclover Germplasm. Received June 20, 1991.

**origin:** United States. **origin institute:** Agricultural Research Service -- USDA, University of Nebraska, Lincoln, Nebraska 68583-0915. **cultivar:** N29. **other id:** GP-3. **group:** CSR-SWEETCLOVER. **remarks:** Combines reduced coumarin content, increased seed size, and resistance to the sweetclover aphid (*Therioaphis riehmi*). The gene for reduced coumarin content was derived originally from the wild sweetclover species, *Melilotus dentata*, and the source of increased seed size was PI 178985, a *Melilotus officinalis* introduction from Turkey. Sweetclover aphid resistance was improved by conventional screening and. Biennial. Breeding Material. Seed.